

IN THE CLAIMS

Please amend the claims as follows:

1-10. (Canceled)

11. (Currently Amended) A reactor, ~~which is divided into~~ comprising:
a plurality of reactor sections; which
~~are separated from one another by dividing walls each having at least one orifice; and~~
~~which has a nozzle extending into the first section,~~
means for feeding in and removing ~~the substances involved~~ reactants and reaction
products to and from one or more of the reactor sections; and
means for controlling ~~the reaction~~ temperature in the plurality of reactor sections;
wherein:
each pair of adjacent reactor sections is separated by a dividing wall;
each dividing wall comprises at least one orifice; and
a nozzle extends into a first reactor section of the plurality of reactor sections.

12. (Currently Amended) A reactor as claimed in claim 11, wherein the at least one
orifice of each dividing walls wall ~~each have an orifice which is present~~ provided
substantially ~~in the center~~ centrally of on the respective dividing wall.

13. (Currently Amended) A reactor as claimed in claim 11, wherein the nozzle ~~used~~
~~is comprises~~ a jet nozzle, mixing nozzle or binary nozzle.

14. (Currently Amended) A reactor as claimed in claim 11, wherein the reactor is
provided with an annular tube having a plurality of outlet orifices and a line for feeding in a

starting material, the annular tube and the line being ~~is provided in the~~ a bottom region of the ~~bottom in the first reactor section.~~

15. (Currently Amended) A reactor as claimed in claim 11, wherein:

the a volume of the first reactor section is greater than that a volume of the remaining reactor sections; and

the volume of the first reactor section accounts for from 25 to 50% of the a total volume of the reactor volume.

16. (Currently Amended) A reactor as claimed in claim 11, wherein:

the reactor is provided with a second reactor section adjacent to the first reactor section; and

at least one of the first reactor section and/or the second reactor section ~~section~~ is equipped with a static mixing element ~~element~~.

17. (Currently Amended) A reactor as claimed in claim 11, wherein:

the reactor is provided with a second reactor section adjacent to the first reactor section;

a second nozzle for mixing the content of the second section is provided in the orifice of the dividing wall separating the first reactor section and the second reactor section; and

is arranged in such a way that its an outlet orifice is present in the orifice, of the second nozzle is provided roughly in ~~the~~ a plane of the dividing wall.

18. (New) A reactor, comprising:

a plurality of reactor sections;

means for feeding and removing reactants and reaction products to and from one or more of the reactor sections; and

means for controlling reaction temperature in the plurality of reactor sections;

wherein:

each pair of adjacent reactor sections is separated by a dividing wall;

each dividing wall comprises at least one orifice;

a nozzle extends into a first reactor section of the plurality of reactor sections;

the means for controlling reaction temperature comprises a heat exchanger; and

the means for feeding and removing reactants and reaction products comprises a line through which contents of the first reactor section can be removed from the first reactor section, subjected to heat reduction by the heat exchanger, and returned to the first reactor via the nozzle.